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8-3-1979

# Motion of the Spokane Tribe of Indians to Amend Findings in Court's Memorandum Opinion

Ira D. Woodward  
*Woodward Engineering*

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IRA D. WOODWARD  
Reg. PE & LS  
Washington 4427

WOODWARD ENGINEERING  
Consulting Engineers  
W. 905 Riverside Ave  
Spokane, Washington  
99201

Office 624-1001  
Res. 624-8009

August 3, 1979

Robert D. Dellwo  
Attorney at Law  
Old National Bank Bldg.  
Suite 1016  
Spokane, WA 99201

Dear Bob,

On July 23rd you asked me to check some ambient temperatures and water temperatures on the Lower Chamokane for the high period of a few days and to estimate the flow of the creek.

On July 24th I made my usual monthly rounds of the creek and wells and found the following:

No flow at North Gaging Station  
Monitoring wells very similar to 1973, this date  
Irrigation Seagle 18 heads Newhouse 51 heads  
Kids redamed below the Lower Gaging Stations so I removed my recorder as useless.

My son and I measured the flow near the South Gaging Station by cross section and average velocity using my price flow meter. My measurements indicated 23 CFS flowing at 1 p.m. this date. At this time the air temperature was  $82^{\circ}$  and the water had risen to  $66^{\circ}$  F.

Above the Falls at 2:10 p.m. the air temperature had reached  $86^{\circ}$  F. and the temperature reading of the water was  $70^{\circ}$  F.

Returning to the Boardman Bridge at 2:35 p.m. the air temperature was still at  $86^{\circ}$  F. and  $70^{\circ}$  F. water temperature.

July 31, 1979

I did not remeasure stream flow, but it appeared to be down slightly. At 5:20 p.m. at Boardman Bridge I found  $92^{\circ}$  F. air temperature and water temperature was  $72^{\circ}$  F. At the Lower Gaging Station at 5:40 p.m.  $92^{\circ}$  F. air, lowest water reading  $71\frac{1}{2}^{\circ}$  F.

Above the Falls 5:50 p.m. air temperature dropped to  $90\frac{1}{2}^{\circ}$  F. and water temperature at  $70\frac{1}{2}^{\circ}$  F.

Smithpeter farm not irrigation - very sparce crop of bails of hay. Field appeared to be very dry.

Flow of Hatchery spring, No. 1 weir, was 4.35 CFS or very close if not slightly less than in 1973 recorded this date.

August 2, 1979

At 3:55 p.m. I again returned to the Lower Chamokane area and found the air temperature to be  $90\frac{1}{2}^{\circ}$  F. This being  $2\frac{1}{2}^{\circ}$  F. warmer than the radio report at Spokane, I moved to a full shaded area and found no change. The water at this time was at  $72\frac{1}{2}^{\circ}$  F.

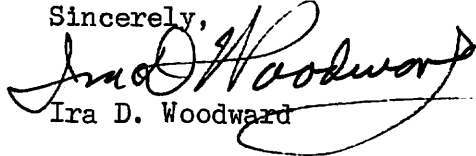
Robert Dellwo Aug. 3, 1979 sheet 2

Another look at the Smithpeter farm, with the very spotty individual green alfalfa growths among dead or dried up crowns I would guess that it had not been irrigated since a first cutting of hay and maybe not even before that.

At 4:30 p.m. with the ambient temperature at  $89^{\circ}$  + F. at the Lower Gaging Station, water temperature was  $72^{\circ}$  F. Again I did not remeasure the flow of the stream but a slight decline was evident. A guess would be that it may be near a 20 CFS flow.

I hope this bit of data gathering meets with your request.

Sincerely,

  
Ira D. Woodward